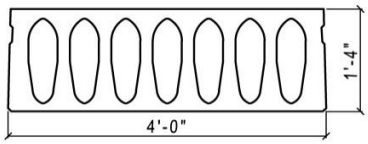
Ultralight Load Table
16" Thick
1.0" Strand Cover



No Structural Topping
Dead Load Weight of Slab = 105 psf

IBC Fire Ratings	Unrestrained 1 hour				
	Restrained 4 hours				

Section Properties

A = 433 in² Yt = 8.11 in b = 16 in
I = 12493 in⁴ Yb = 7.89 in wt = 105 psf

ϕM_n ft-k/ft	66.02	93.93	115.67	133.96	147.83
Series	1.0G-16708	1.0G-16808	1.0G-16810	1.0G-16812	1.0G-16814
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
36	176	246	271		
37	162	232	256		
38	150	223	245	264	
39	138	210	231	251	
40	128	199	219	239	
41	118	192	210	227	
42	108	181	199	216	
43		172	189	207	
44		164	182	197	
45		153	173	187	
46		143	165	180	
47		134	157	172	
48		125	152	164	
49		117	145	156	
50		109	138	152	
51			131	145	
52			127	141	
53			122	135	
54			116	129	143
55			110	123	137
56				117	131
57				112	125
58				107	120
59				103	115
60				97	110
61					105
62					100
63					95
64					90

2" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 130 psf

IBC Fire Ratings	Unrestrained 1 hour				
	Restrained 4 hours				

Section Properties

A = 518 in² Yt = 8.61 in b = 16 in
I = 18409 in⁴ Yb = 9.38 in wt = 130 psf

ϕM_n ft-k/ft	74.03	104.95	128.83	151.95	174.29
Series	1.0G-16708T	1.0G-16808T	1.0G-16810T	1.0G-16812T	1.0G-16814T
Span in Feet	Allowable Superimposed Load In lbs/ft^2				
32	264	356	373		
33	242	333	358		
34	223	315	344		
35	205	296	329		
36	188	278	309		
37	173	265	294		
38	159	249	276	294	
39		237	262	284	
40		224	249	271	
41		211	235	259	
42		200	224	245	
43		186	213	232	
44		174	201	221	
45		162	192	211	
46			184	200	
47			174	190	
48			165	183	
49			159	173	
50			151	169	
51				160	
52				156	
53				148	
54				141	159
55				134	151
56					144
57					137
58					129
59					120

Concrete Strength: 6,000 psi at 28 days
Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Camber 1"-1 1/2"
Camber > 1 1/2"

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Load tables are presented as guidelines only. Design requirements must be reviewed by the engineer of record for each specific project.